

Title (en)

Solar Cell And Magnetically Self-Assembled Solar Cell Assembly

Title (de)

Solarzelle und magnetisch selbstangeordnete Solarzellenanordnung

Title (fr)

Cellule solaire et ensemble de cellule solaire auto-assemblé magnétiquement

Publication

EP 2081236 A3 20120919 (EN)

Application

EP 09150077 A 20090106

Priority

US 1435608 A 20080115

Abstract (en)

[origin: EP2081236A2] An assembly (30) is provided and includes at least one solar cell (10) comprising a photovoltaic element (12) having an upper surface (14) for receiving and absorbing radiation, a lower surface (16) for coupling to an article (20), a first end (18) and a second end (22). The solar cell further includes at least one magnet (24) attached to the first end of the photovoltaic element. The assembly further includes an article (20) comprising a substrate (32), and a magnetic film (34) disposed on the substrate and defining at least one receptor site (36). Each solar cell is disposed at a respective receptor site.

IPC 8 full level

H01L 31/048 (2006.01); **H01L 31/042** (2006.01)

CPC (source: EP US)

H01L 24/95 (2013.01 - EP US); **H01L 31/048** (2013.01 - EP US); **H01L 2224/95144** (2013.01 - EP US); **H01L 2924/01005** (2013.01 - EP US); **H01L 2924/01006** (2013.01 - EP US); **H01L 2924/01013** (2013.01 - EP US); **H01L 2924/01021** (2013.01 - EP US); **H01L 2924/01023** (2013.01 - EP US); **H01L 2924/01025** (2013.01 - EP US); **H01L 2924/01029** (2013.01 - EP US); **H01L 2924/0103** (2013.01 - EP US); **H01L 2924/01032** (2013.01 - EP US); **H01L 2924/01033** (2013.01 - EP US); **H01L 2924/01038** (2013.01 - EP US); **H01L 2924/01042** (2013.01 - EP US); **H01L 2924/01047** (2013.01 - EP US); **H01L 2924/01049** (2013.01 - EP US); **H01L 2924/01056** (2013.01 - EP US); **H01L 2924/0106** (2013.01 - EP US); **H01L 2924/01073** (2013.01 - EP US); **H01L 2924/01074** (2013.01 - EP US); **H01L 2924/01078** (2013.01 - EP US); **H01L 2924/01079** (2013.01 - EP US); **H01L 2924/01082** (2013.01 - EP US); **H01L 2924/10329** (2013.01 - EP US); **H01L 2924/12042** (2013.01 - EP US); **H01L 2924/15788** (2013.01 - EP US); **Y02E 10/50** (2013.01 - US); **Y02E 10/547** (2013.01 - EP)

Citation (search report)

- [XPL] US 2008135956 A1 20080612 - HUBER WILLIAM HULLINGER [US], et al
- [X] US 2005009303 A1 20050113 - SCHATZ KENNETH DAVID [US]
- [X] US 2007087472 A1 20070419 - HUBER WILLIAM H [US], et al
- [X] US 2007231949 A1 20071004 - HUBER WILLIAM H [US], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2081236 A2 20090722; **EP 2081236 A3 20120919**; AU 2008264156 A1 20090730; CN 101488530 A 20090722; CN 101488530 B 20150506; US 2009178709 A1 20090716; US 8674212 B2 20140318

DOCDB simple family (application)

EP 09150077 A 20090106; AU 2008264156 A 20081222; CN 200910003480 A 20090115; US 1435608 A 20080115